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NOTICE OF ALLOWANCE AND FEE(S) DUE

31561

7590

04/20/2009

JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE 7 FLOOR-1, NO. 100 ROOSEVELT ROAD, SECTION 2 TAIPEI, 100 TAIWAN EXAMINER

HARRISON, MONICA D

ART UNIT PAPER NUMBER

2893

DATE MAILED: 04/20/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/710.732	07/30/2004	Ko-Hsing Chang	13041-US-PA	4731

TITLE OF INVENTION: METHOD OF MANUFACTURING PHOTODIODE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$1400	\$1510	07/20/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

opropriate. All further idicated unless correcte naintenance fee notifical	correspondence including below or directed other tions	ng the Patent, advance on herwise in Block 1, by (a	rders and notification a) specifying a new c	of m orresp	paintenance fees will condence address; an	be mailed to the current d/or (b) indicating a sepa	correspondence address as trate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Feet	e) Transmittal This co	rtificate cannot be used f	or domestic mailings of the or any other accompanying or formal drawing, must
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7 FLOOR-1, NO ROOSEVELT R		AL PROPERTY C)FFICE	I her State addre trans	eby certify that this F is Postal Service with essed to the Mail St mitted to the USPTO	ee(s) Transmittal is being sufficient postage for firs op 1SSUE FEE address (571) 273-2885, on the d	g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
TAIPEI, 100 TAIWAN							(Depositor's name)
IAIWAIN							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR	AT	TORNEY DOCKET NO.	CONFIRMATION NO.
10/710,732	07/30/2004		Ko-Hsing Chang	3	_	13041-US-PA	4731
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nonprovisional	NO	\$1510	\$0		\$1400	\$1510	07/20/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS	3			
HARRISON,	MONICA D	2893	438-021000				
Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of tor agents OR, alter (2) the name of a registered attorney 2 registered patent	rinting on the patent front page, list names of up to 3 registered patent attorneys ts OR, alternatively, name of a single firm (having as a member a ed attorney or agent) and the names of up to ered patent attorneys or agents. If no name is o name will be printed.			
PLEASE NOTE: Unl recordation as set forti (A) NAME OF ASSIG	ess an assignee is identi h in 37 CFR 3.11. Comp GNEE		data will appear on t T a substitute for filin (B) RESIDENCE: (C	he pa g an a CITY	tent. If an assignee i assignment. and STATE OR COU	NTRY)	ocument has been filed for
a. The following fee(s) a	are submitted:	40	A check is enclos		se urst reapply any p	reviously paid issue fee	snown above)
Publication Fee (No small entity discount permitted)					l. Form PTO-2038 is		
Advance Order - #	# of Copies		The Director is he overpayment, to I	ereby Depos	authorized to charge t sit Account Number _	he required fee(s), any de (enclose a	ficiency, or credit any n extra copy of this form).
	tus (from status indicated s SMALL ENTITY statu		b. Applicant is no	o long	er claiming SMALL l	ENTITY status. See 37 CI	FR 1.27(g)(2).
OTE: The Issue Fee and terest as shown by the I	d Publication Fee (if requeecords of the United Sta	uired) will not be accepted tes Patent and Trademark	d from anyone other the Office.	han th	ne applicant; a register	ed attorney or agent; or th	ne assignee or other party in
Authorized Signature					Date		
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application. Confident bmitting the completed is form and/or suggesti	tiality is governed by 35 application form to the ons for reducing this but irginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the	1.14. This collection is depending upon the control of the control	is esti indivi Office	mated to take 12 min dual case. Any comn r. U.S. Patent and Tra	ites to complete, including ents on the amount of tited demark Office, U.S. Dens	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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ROOSEVELT RO	AD, SECTION 2	2893		
TAIPEI, 100		DATE MAILED: 04/20/2009		
TAIWAN				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 147 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 147 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/710,732	CHANG ET AL.		
Notice of Allowability	Examiner	Art Unit		
	Monica D. Harrison	2893		
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate community. This application is s	this application. If not included nication will be mailed in due course. THIS		
1. This communication is responsive to <u>1/8/09</u> .				
2. ☑ The allowed claim(s) is/are <u>16-23</u> .				
 3. Acknowledgment is made of a claim for foreign priority unally All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Applicatio	n No		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements		
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 				
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the sheet of the pool of t	son's Patent Drawing Review s Amendment / Comment or 84(c)) should be written on the	in the Office action of ne drawings in the front (not the back) of R 1.121(d).		
attached Examiner's comment regarding REQUIREMENT				
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Int	formal Patent Application		
 Notice of Neterences Gled (P10-092) DNotice of Draftperson's Patent Drawing Review (PTO-948) 		5. ☐ Notice of Informal Patent Application6. ☐ Interview Summary (PTO-413),		
3. ☐ Information Disclosure Statements (PTO/SB/08),		Mail Date Amendment/Comment		
Paper No./Mail Date				
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. 🛛 Examiner's Statement of Reasons for Allowance			
	9. Other	-		

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DETAILED ACTION

1. Applicant's amendment filed 1/8/09 has been entered. Examiner acknowledges claims 1-15 are cancelled. Newly admitted claims 21-23 have been entered.

Allowable Subject Matter

2. Claims 16-23 are allowed over the prior art of record.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance: The prior art does not disclose nor fairly suggest a method of fabricating a photodiode including forming a buffer layer of a semiconductor material over the well region, forming a doped layer of a second conductive type directly over the buffer layer, and performing an annealing operation (claim 16) in the context of the recited process along with its depending claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monica D. Harrison whose telephone number is (571)272-1959. The examiner can normally be reached on M-F 7:00am-3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Davienne Monbleau can be reached on 571-272-1945. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2893

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Monica D. Harrison/ Examiner, Art Unit 2893

mdh April 9, 2009

/Davienne Monbleau/ Supervisory Patent Examiner, Art Unit 2893